

Minikube

In the context of DevOps, Minikube is a lightweight, single-node Kubernetes cluster tool used for local development and testing, allowing developers to experiment with Kubernetes features without the complexities of a full-fledged cluster.

=> MINIKUBE

```
--> curl -LO
```

```
https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl sudo
```

```
install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
```

```
--< --> chmod +x kubectl mkdir
```

```
-p ~/.local/bin mv ./kubectl
```

```
~/.local/bin/kubectl
```

```
--< kubectl version --
```

```
client
```

```
-->
```

```
curl -LO
```

```
https://github.com/kubernetes/minikube/releases/latest/download/minikubelinux-  
amd64
```

```
sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-  
linuxamd64
```

```
--< minikube
```

```
start
```

docker ps (check if container is running) kubectl

get node

kubectl get pod (No resources found) kubectl

get pod -o wide (No resources found)

minikube status kubectl get deploy kubectl

get replica

JENKINS pipeline

pipeline {

agent any

stages {

stage('scm') {

steps {

git branch: 'main', url:

'https://github.com/Rithik2005/devOps2'

}

}

stage('build') {

steps {

sh "mvn clean"

sh "mvn install"

}

```
}  
  
stage('build to images') {  
    steps {  
        script{  
            sh 'docker build -t  
demohub/simplewebapp :'  
        }  
    }  
}  
  
stage('push to hub') {  
    steps {  
        script{  
            withDockerRegistry(credentialsId:  
'Docker_cred', url: 'https://index.docker.io/v1/')  
        {  
            sh 'docker push rithik2005/devops'  
        }  
    }  
}  
}  
}
```